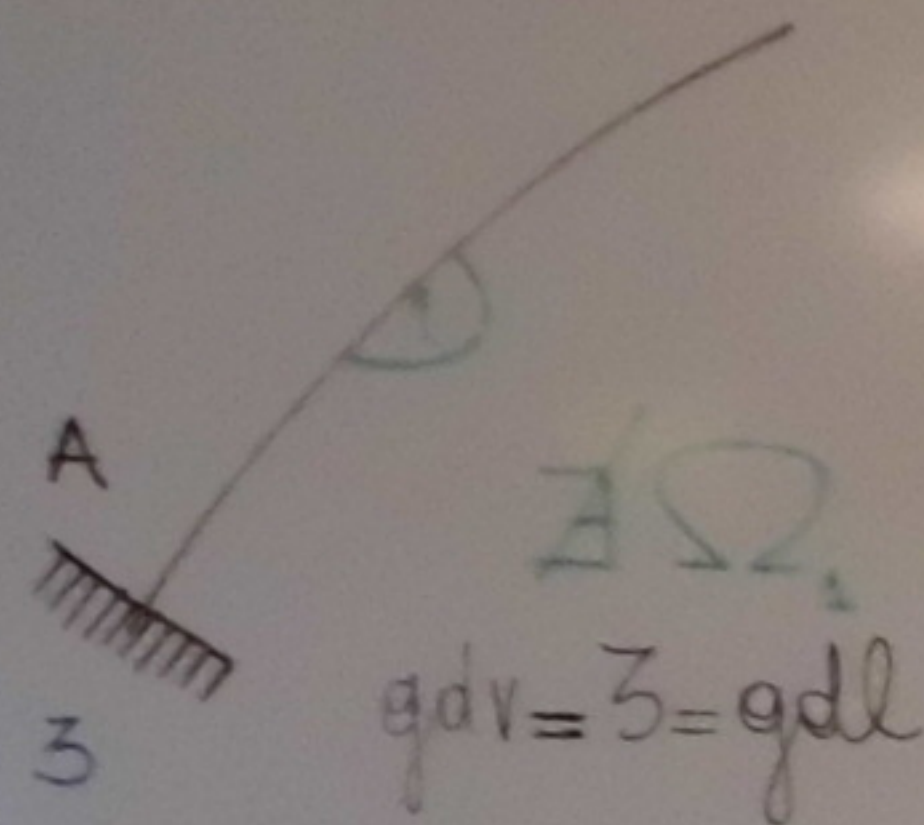


Schemi isostatici fondamentali

1)

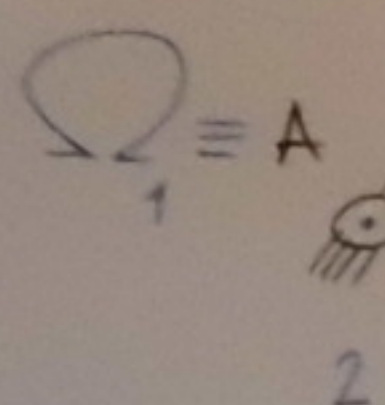


asta incastata

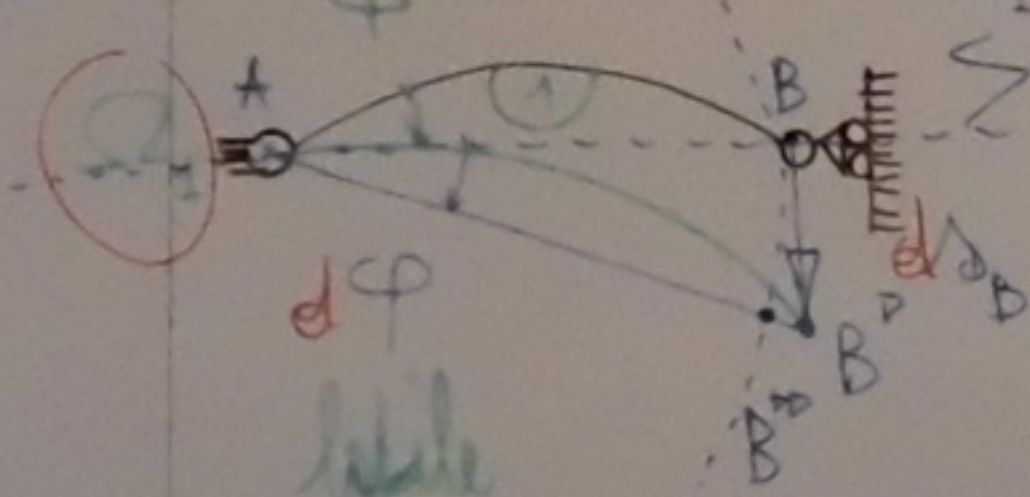
Schemi isostatici del corpo rigido

(3=3; 2+1=3; 1+1+1=3)

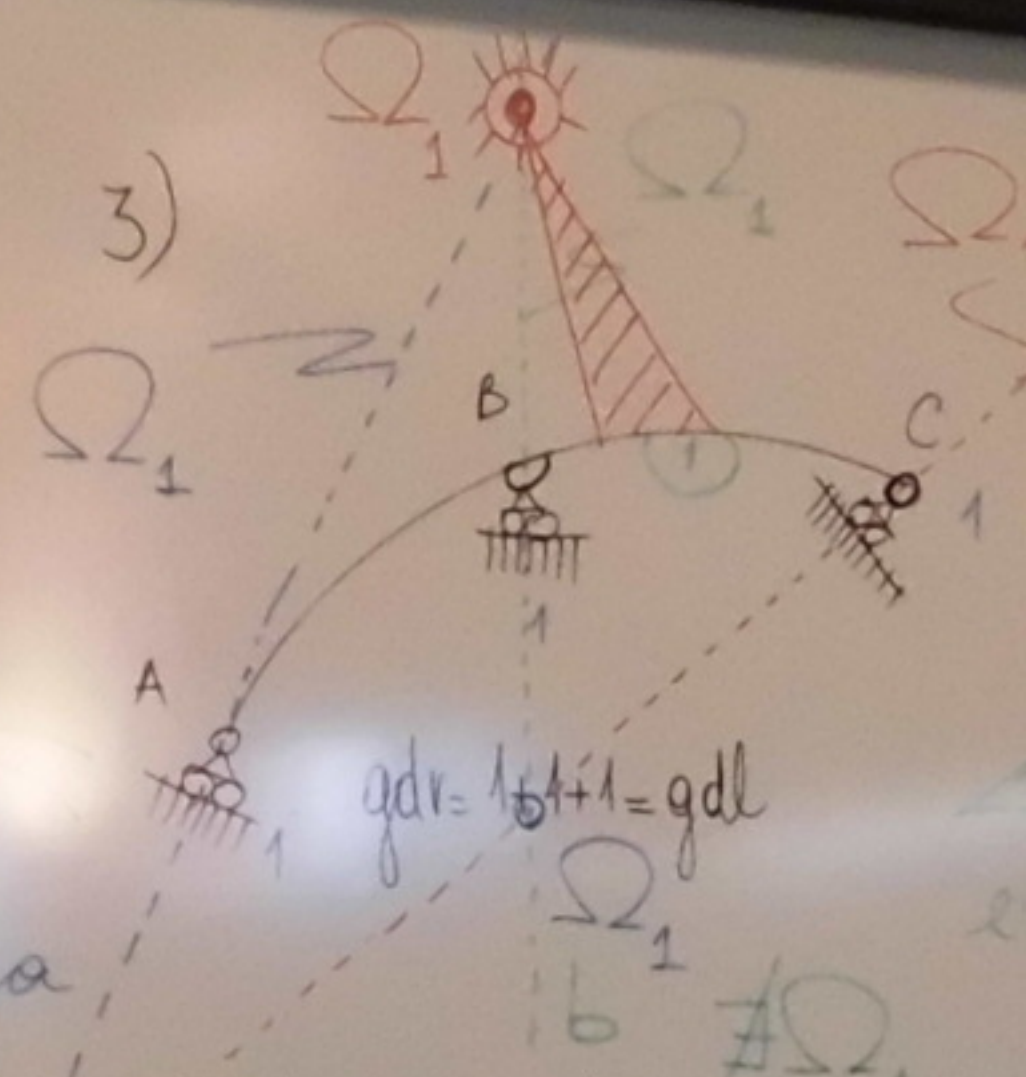
2)



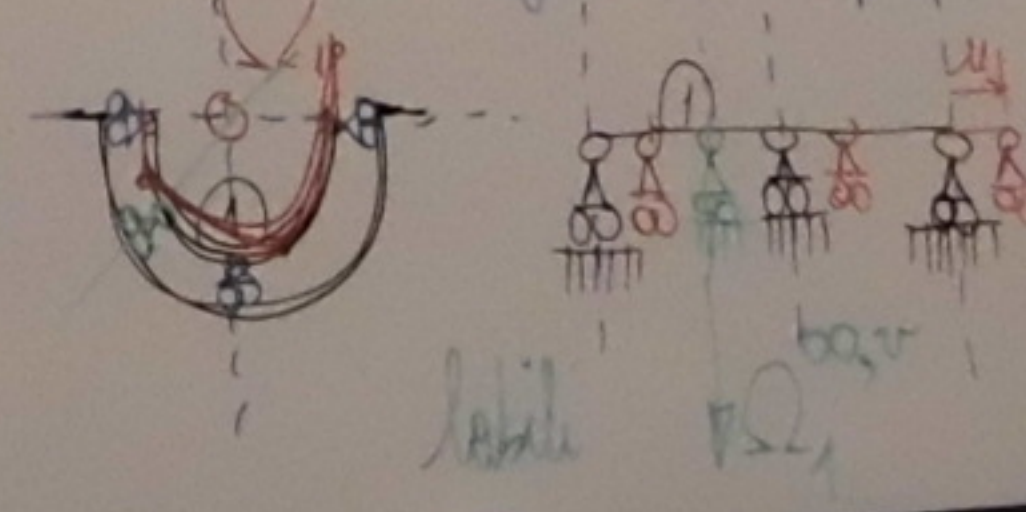
asta cerniera-carrello
(avanti asse del carrello non presente per la cerniera)



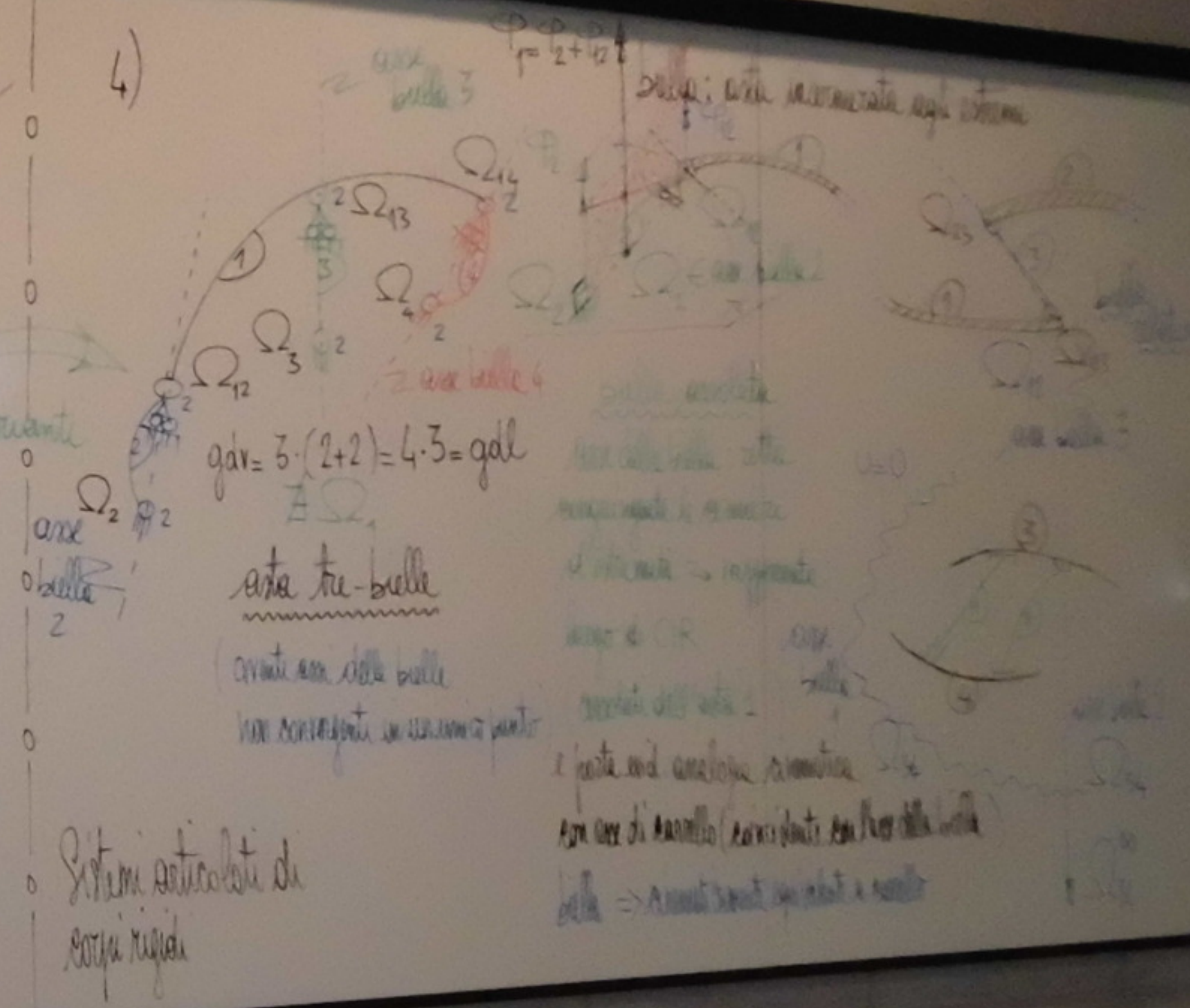
3)



asta tre-carrelli
(avanti assi dei carrelli non convergenti in un unico punto)

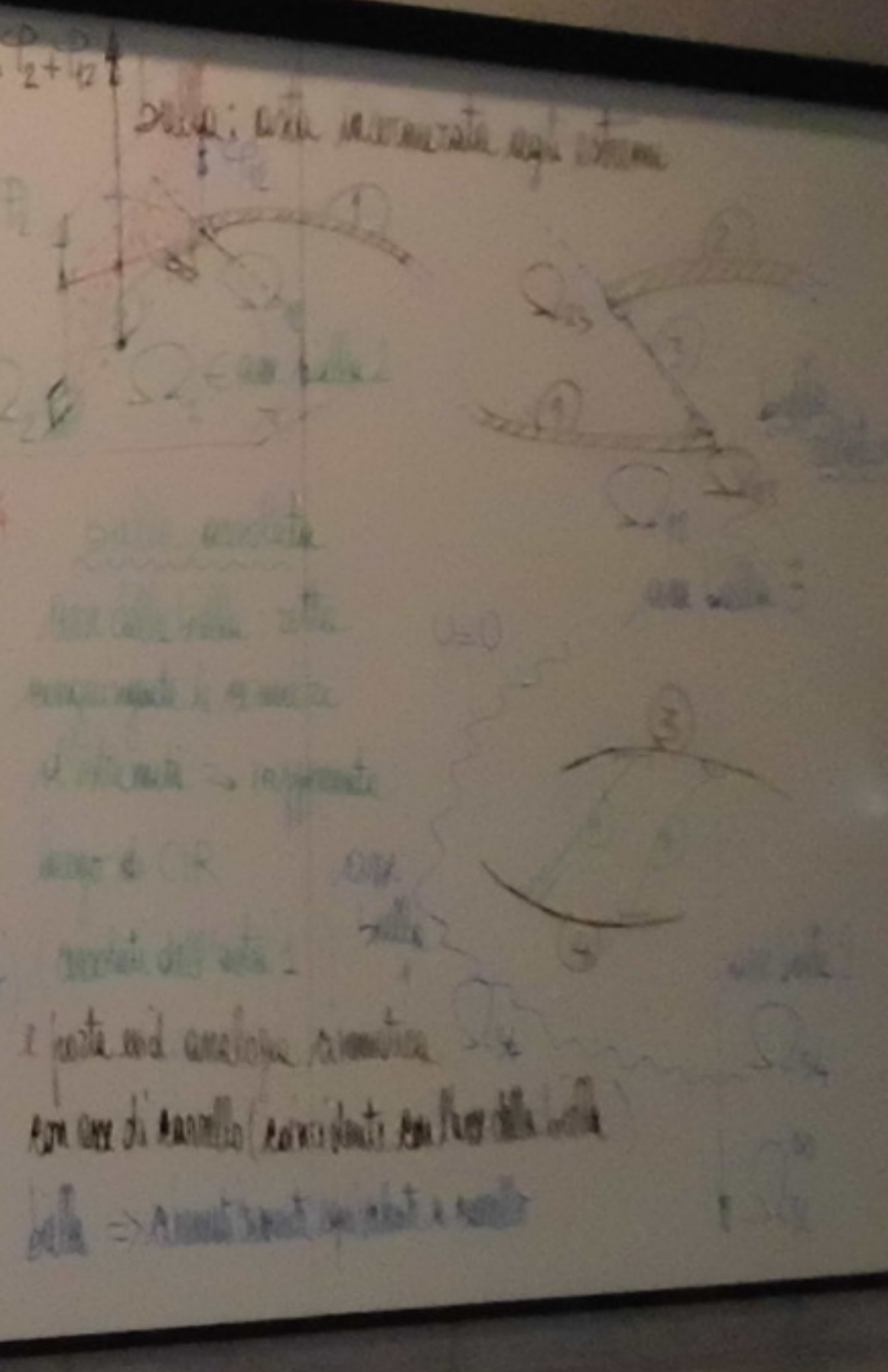


4)



asta tre-carrelli
(avanti assi dei carrelli non convergenti in un unico punto)

Sistemi articolati di corpi rigidi



Schemi isostatici fondamentali

1) 2)

$$gdr = 3 = gdl$$

asta incastrata

Schemi isostatici del corpo rigido

2)

$$gdr = 2 + 1 = gdl$$

asta scorrevole - carrello

(avanti assi del carrello non passanti per la stessa)

3)

$$gdr = 1 + 1 + 1 = gdl$$

asta tre-carrelli

(avanti assi dei carrelli non convergenti in un unico punto)

4)

$$gdr = 3 \cdot (2 + 2) = 4 \cdot 3 = gdl$$

asta tre-bielle

(avanti assi delle bielle non convergenti in un unico punto)

Sistemi articolati di corpi rigidi

$$P_1 = P_2 + P_{12}$$

biella: asta inalterata agli estremi

asse biella 3

asse biella 4

biella assoluta

asse della biella: retta congiungente le cerniere

di estremità $\approx$ rappresenta

luogo di CIR

(angolo dell'asta)

e porta anal. analogica cinematica

con assi di carrello (coincidente con l'asse della biella)

biella $\Rightarrow$ cinematicamente equivalente a carrello

asse biella 3

asse biella 3

asse biella 3

asse biella 3

asse biella 3

asse biella 3

asse biella 3

asse biella 3

asse biella 3

asse biella 3

asse biella 3

asse biella 3

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asse biella 3

asse biella 3

asse biella 3

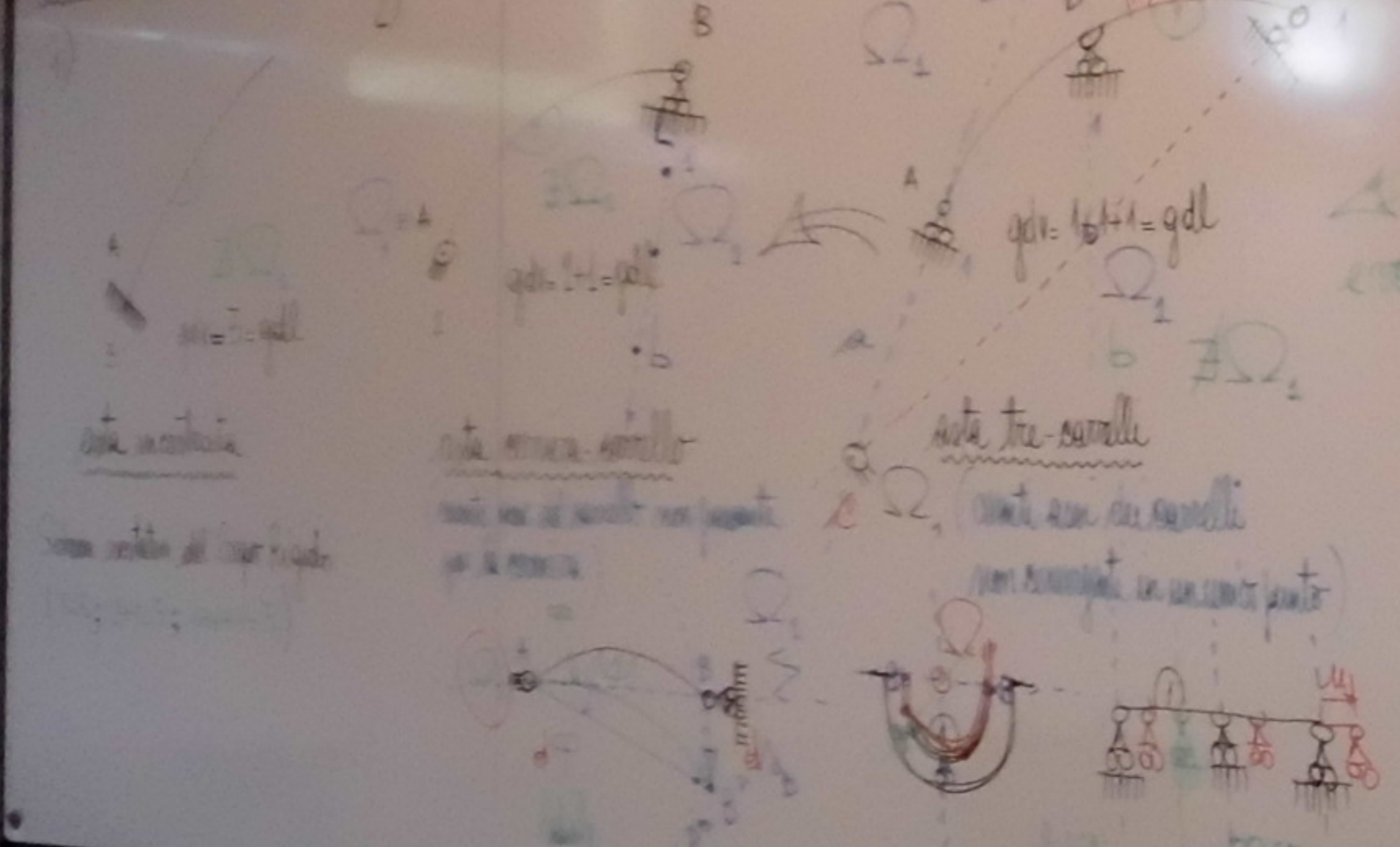
asse biella 3

asse biella 3

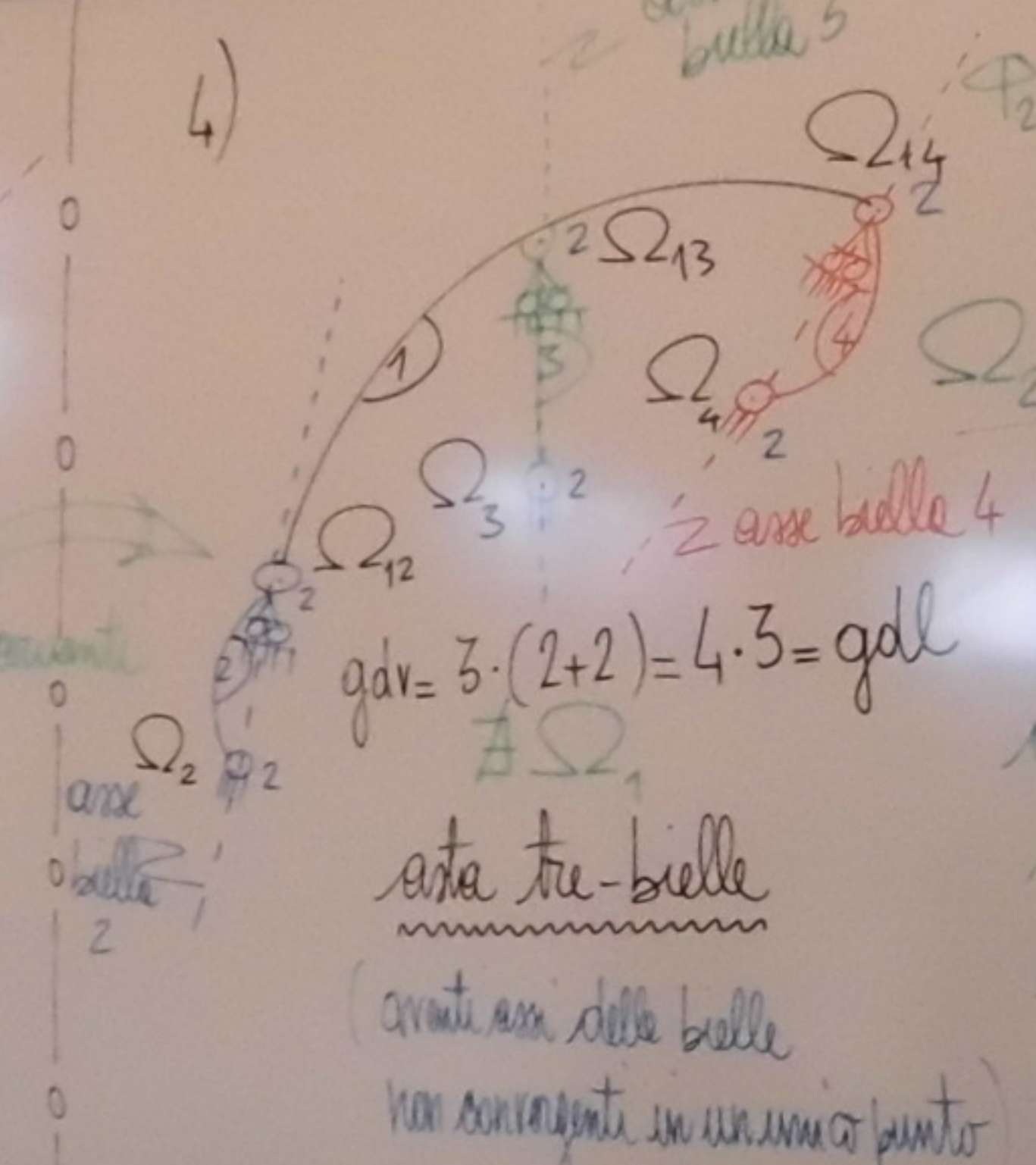
asse biella 3

asse biella 3

Sistemi articolati - cinematica

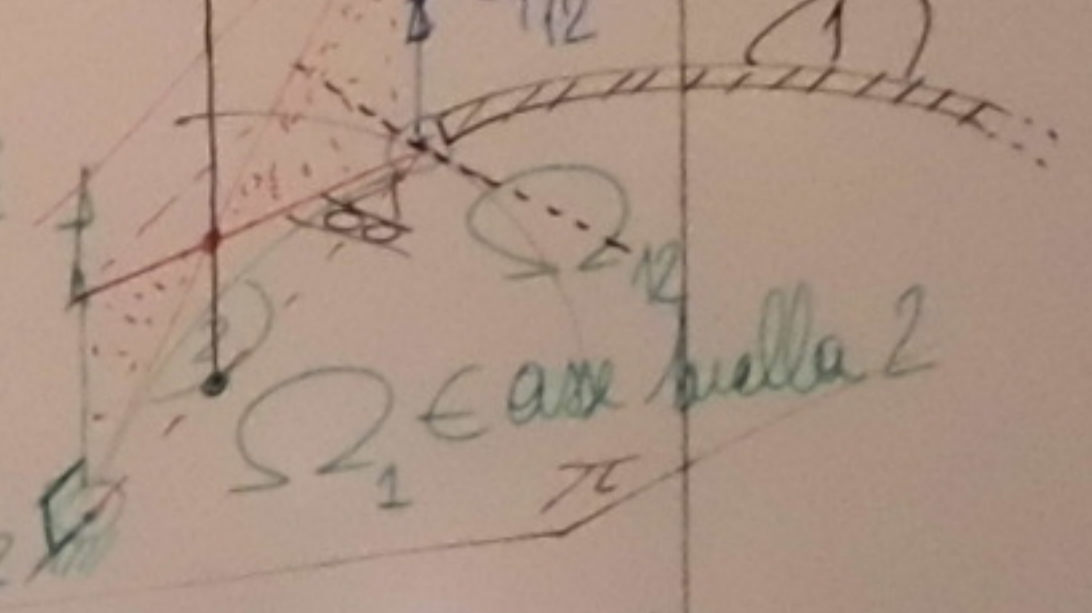


asse assoluta
asse relativa
asse di navarro



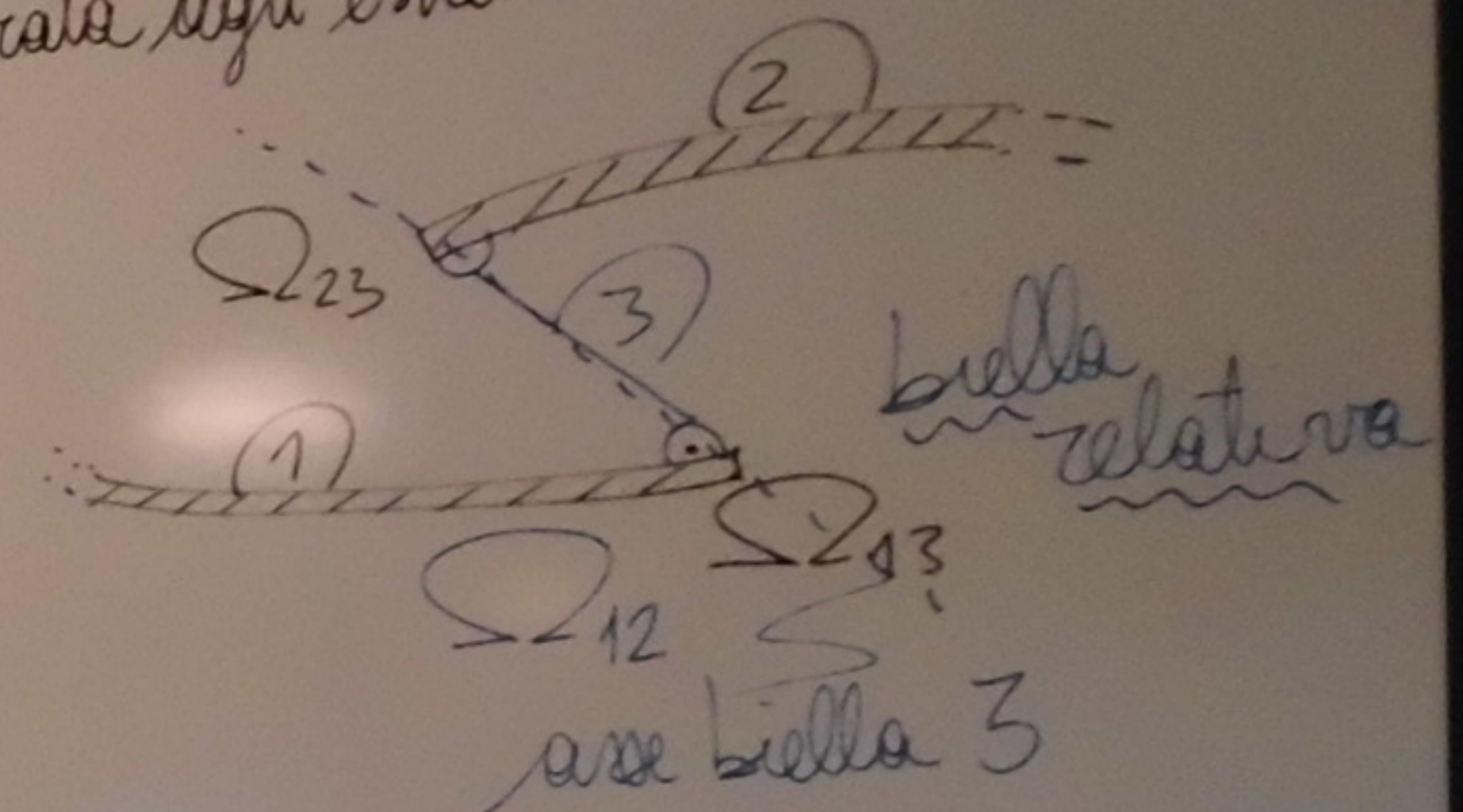
asse assoluta
asse relativa
asse di navarro

biella: asta marmierata agli estremi

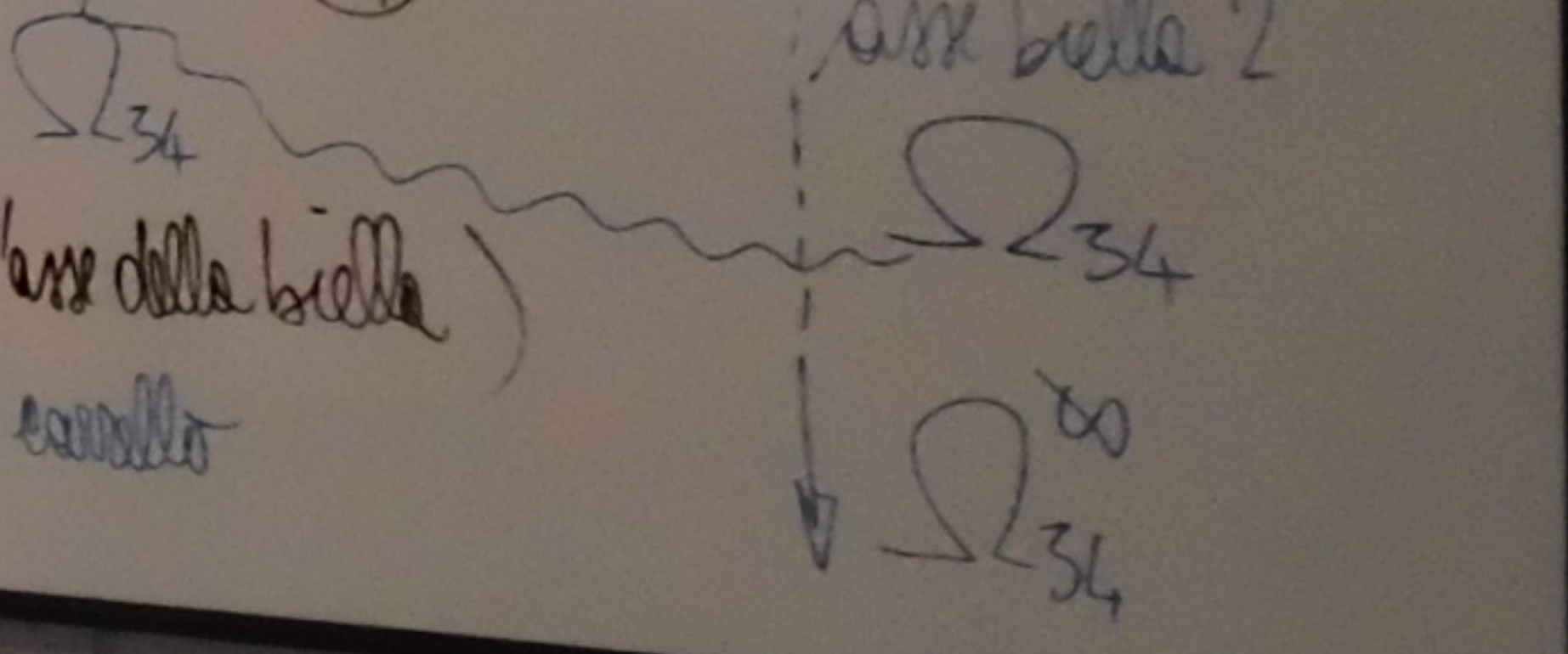


biella assoluta
asse della biella: retta congiungente le cerniere d'estremità > rappresenta luogo di CIR

(assoluti dell'asta 1)
e forte evid. analogia cinematica con asse di navarro (coincidente con l'asse della biella)
biella => cinematicamente equivalente a navarro



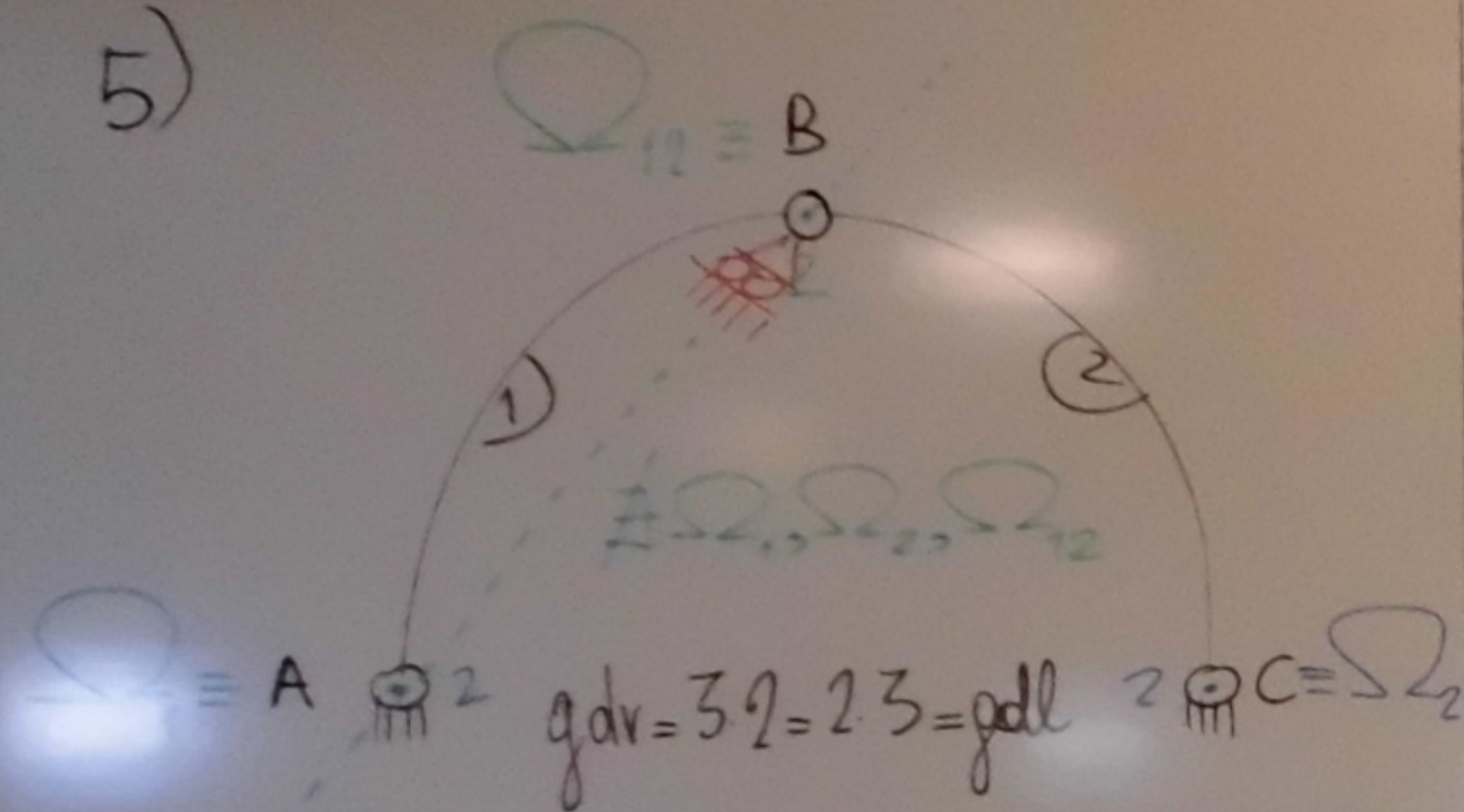
biella relativa
asse biella 3



asse biella 2
asse biella 1
asse biella 3

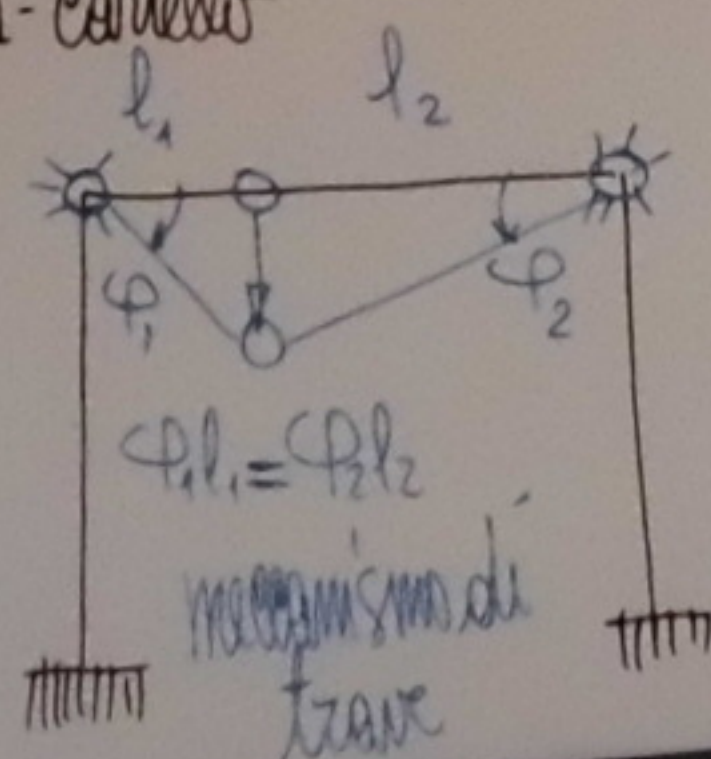
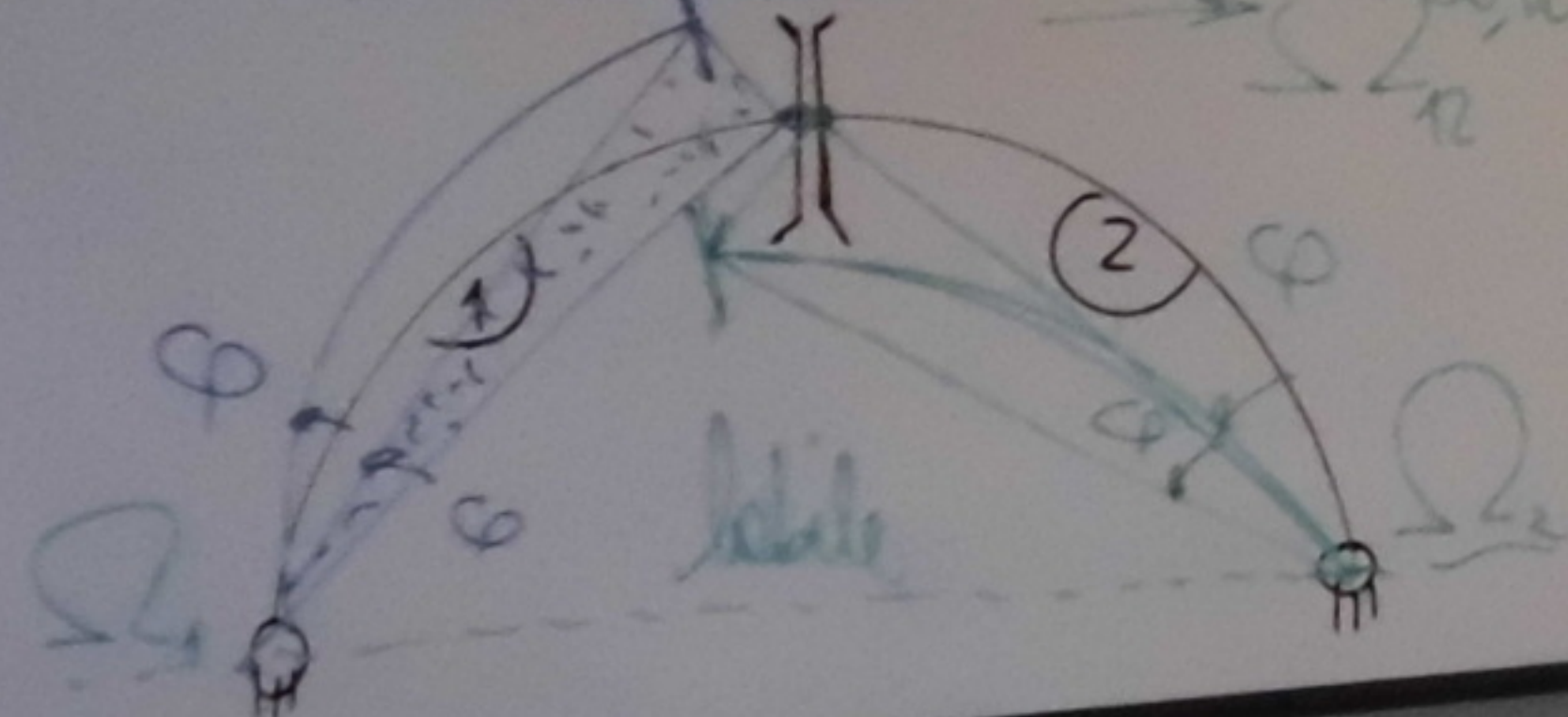
Schemi isostatici fondamentali

5)



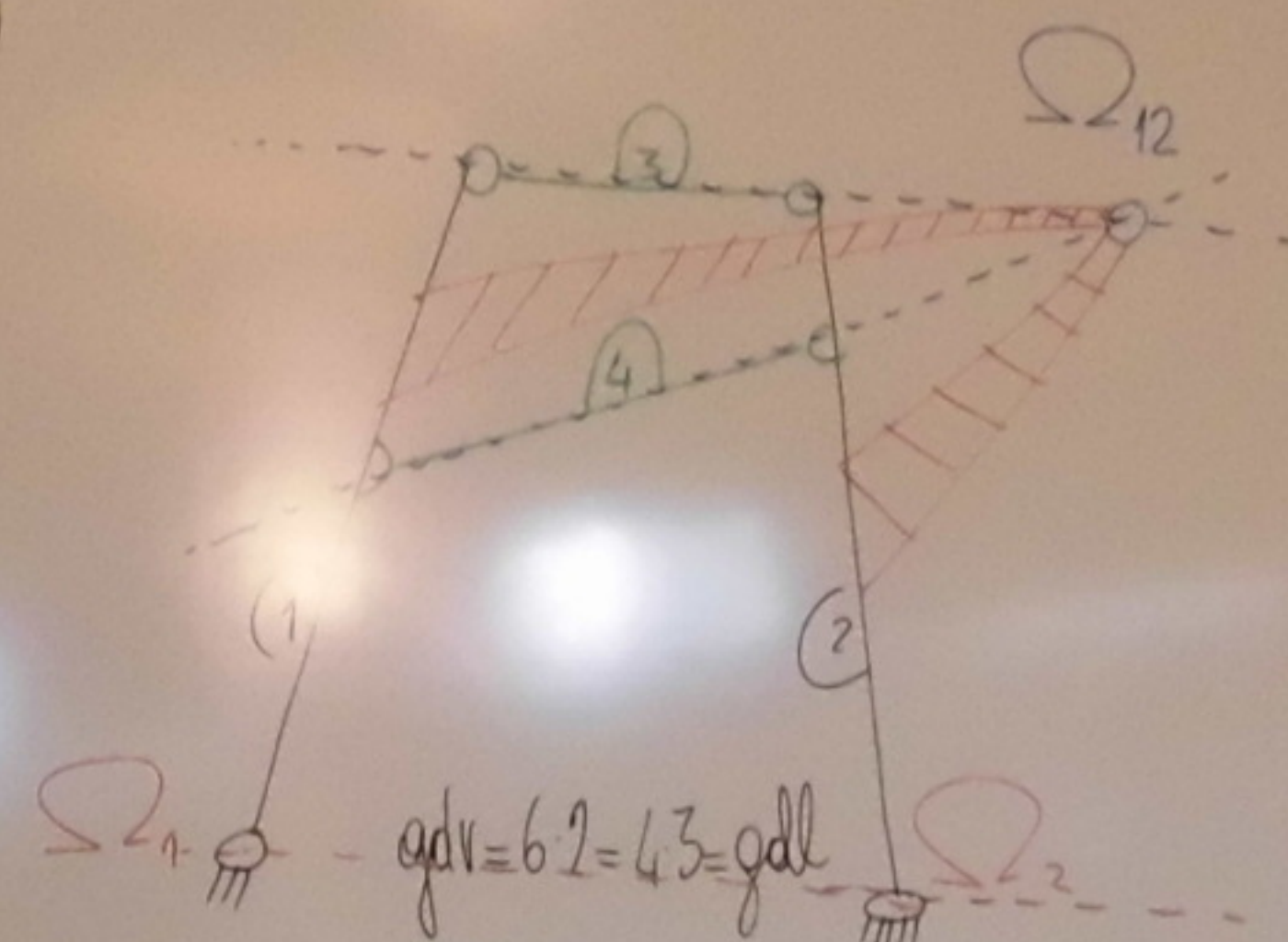
asse
bello!
 Ω_2

arco a tre cerniere
non allineate
2) riconducibile
ad arco a tre cerniere



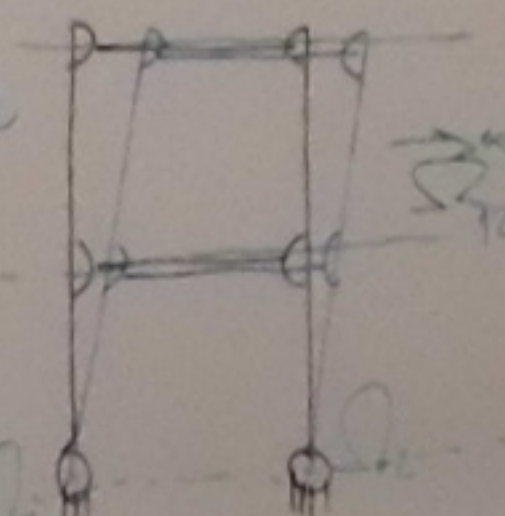
meccanismo di
trave

6)

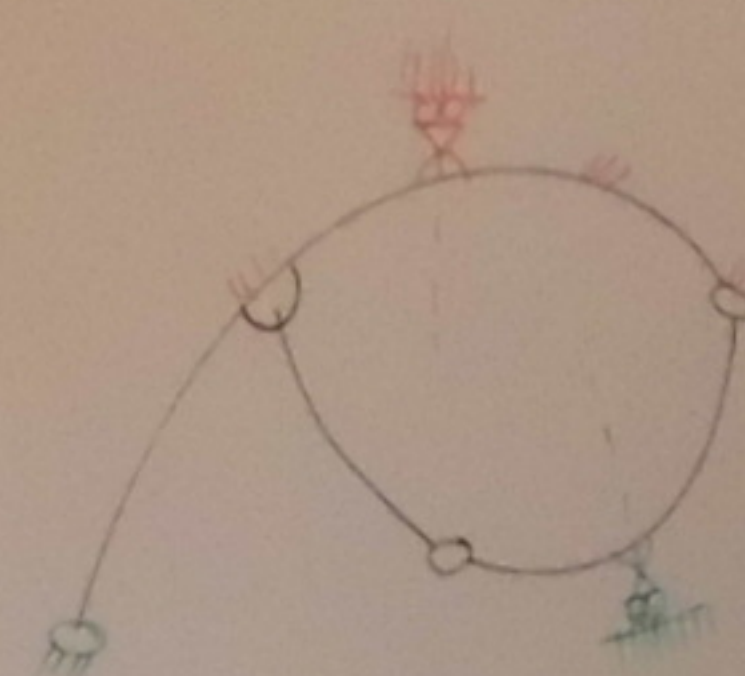


quadrilatero articolato
(riconducibile ad arco a tre cerniere
non allineate)

meccanismo
di parete

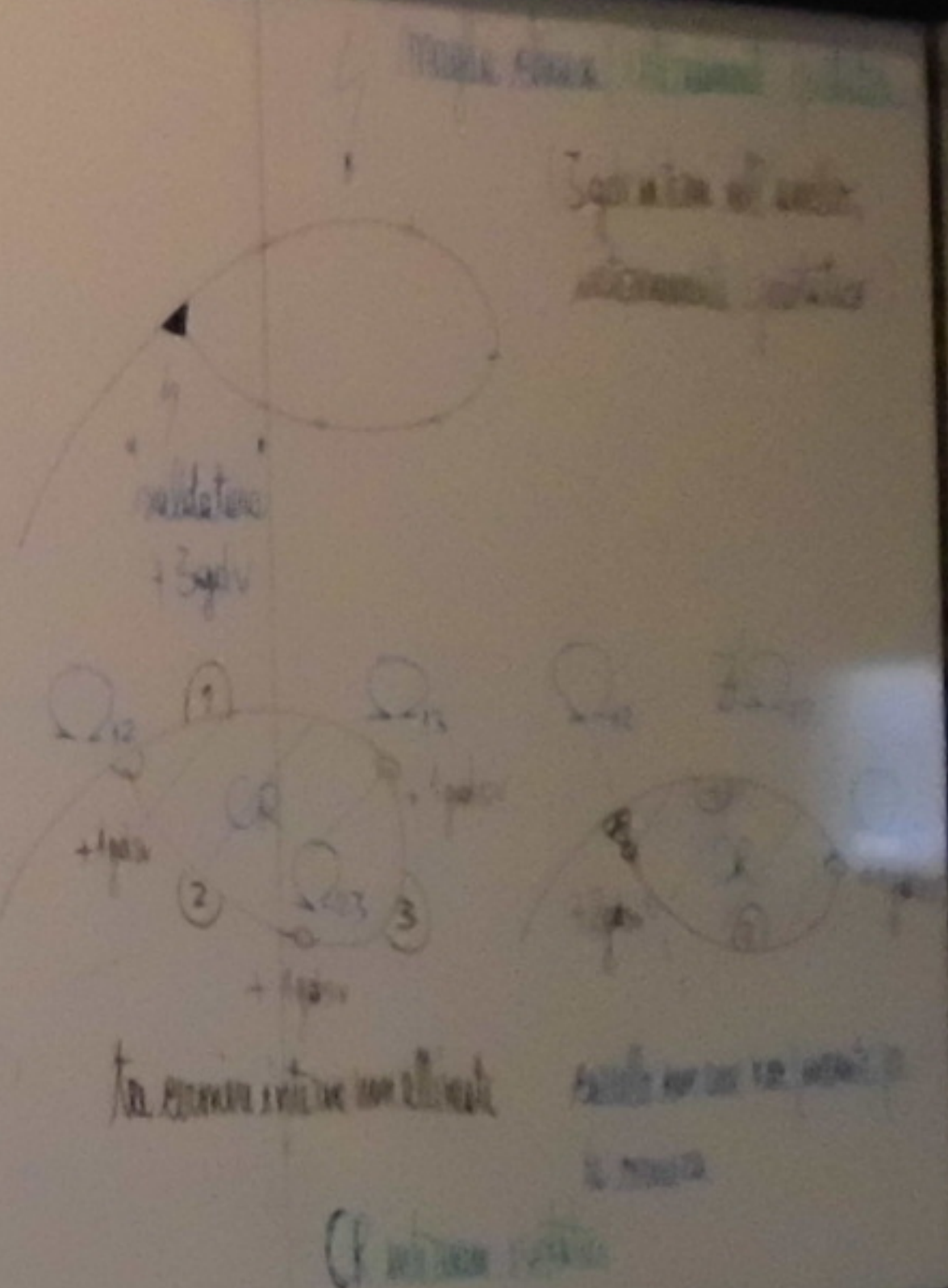


7)



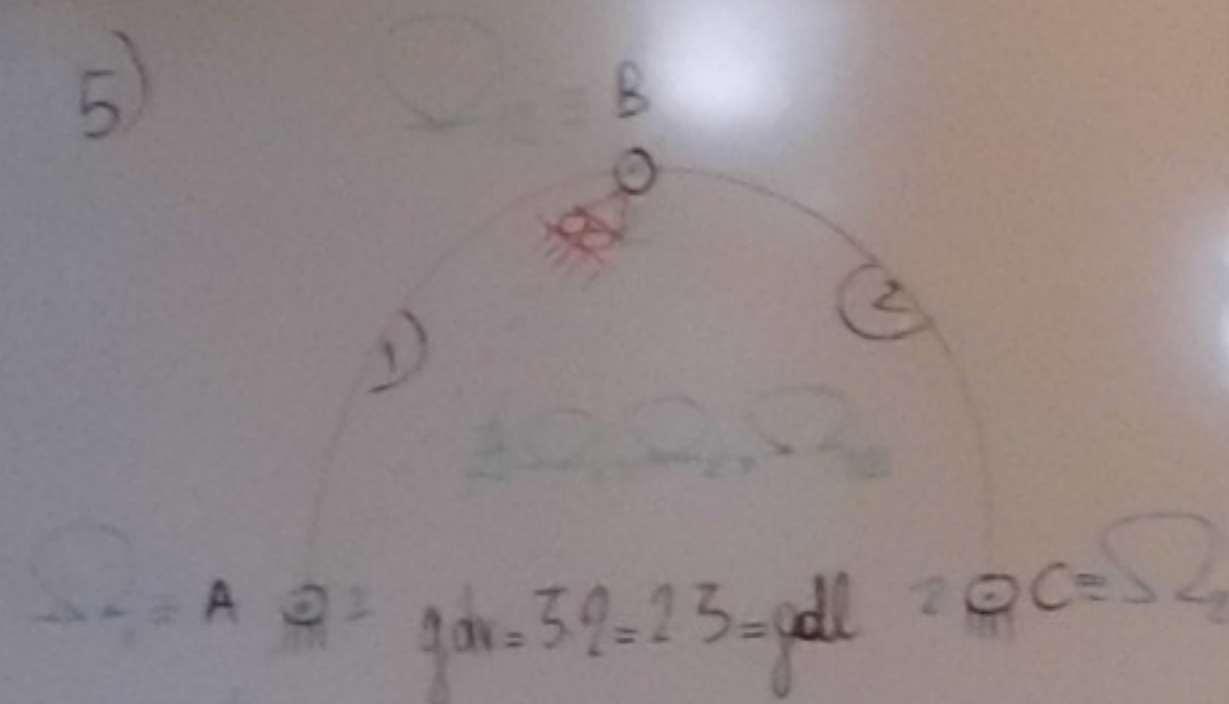
anello chiuso articolato

(posto a terra con una delle articolazioni
fissa, secondo sequenza di montaggio
da qui non può muoversi)

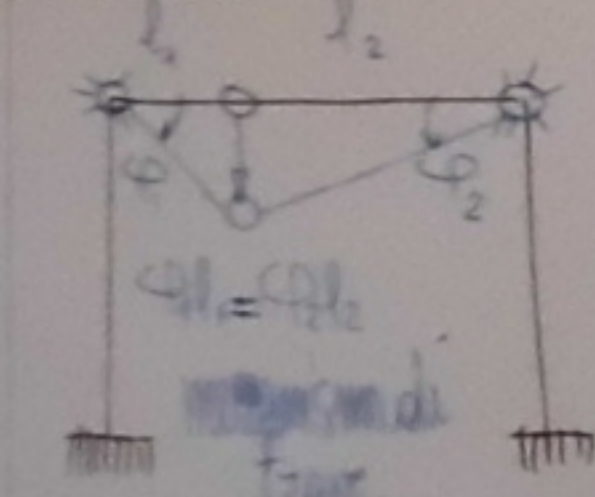
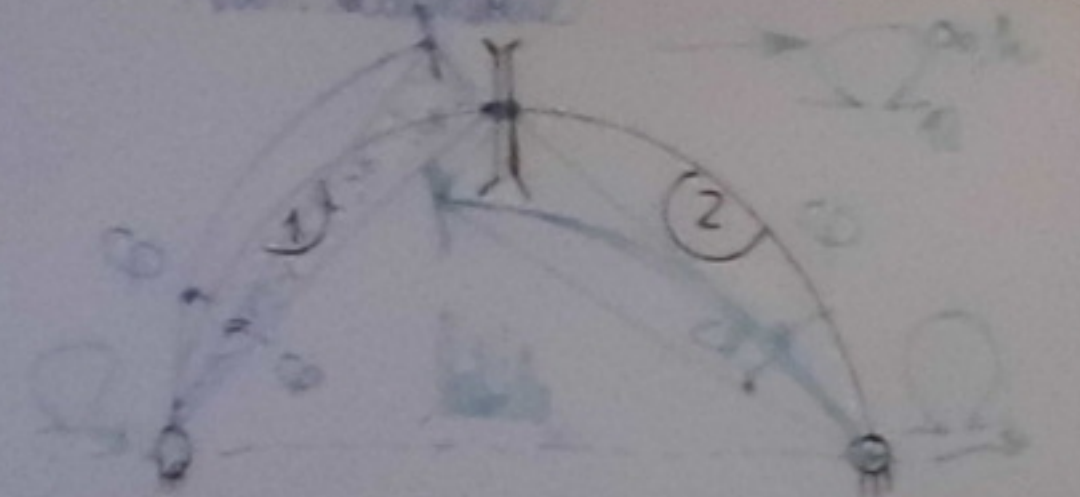


Schemi isostatici fondamentali

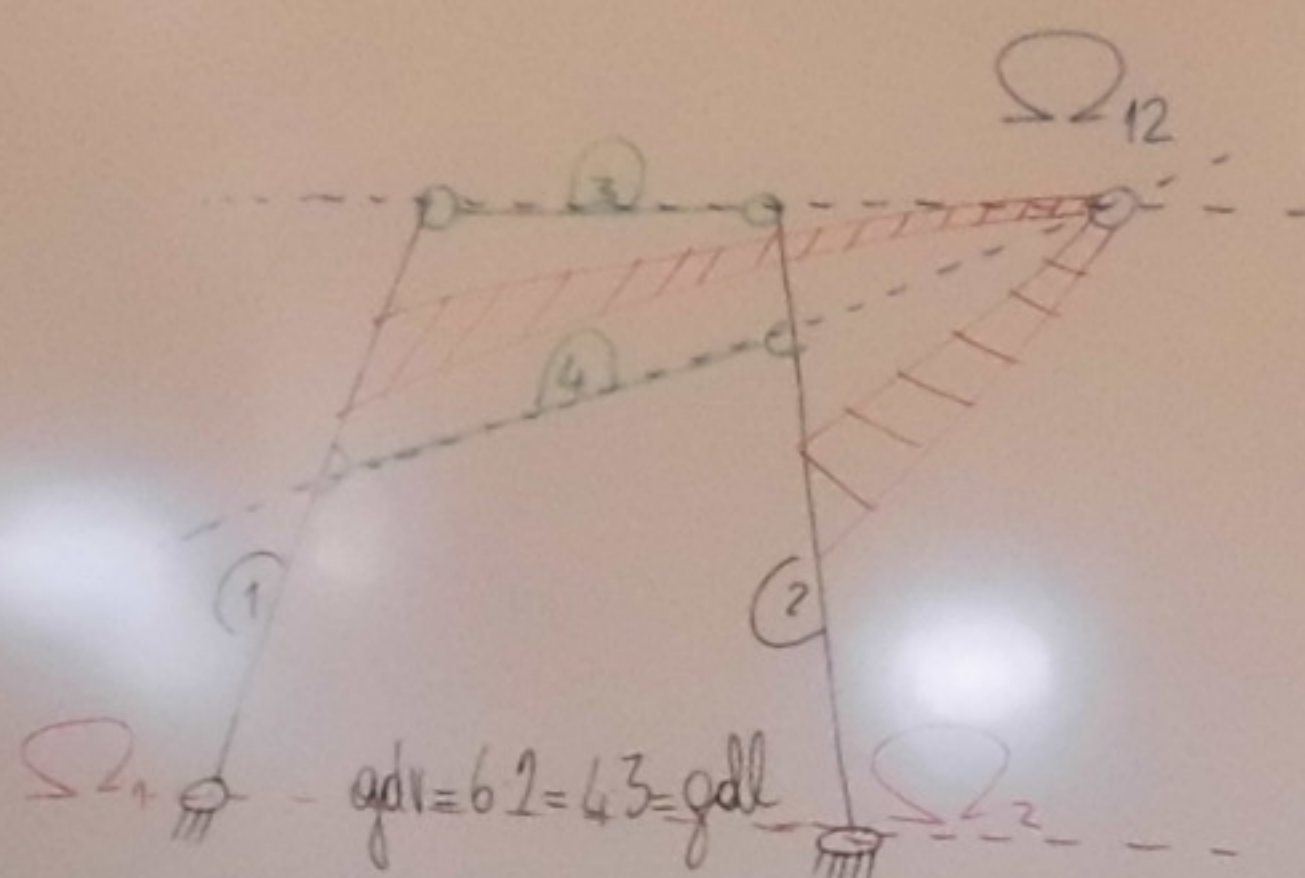
5)



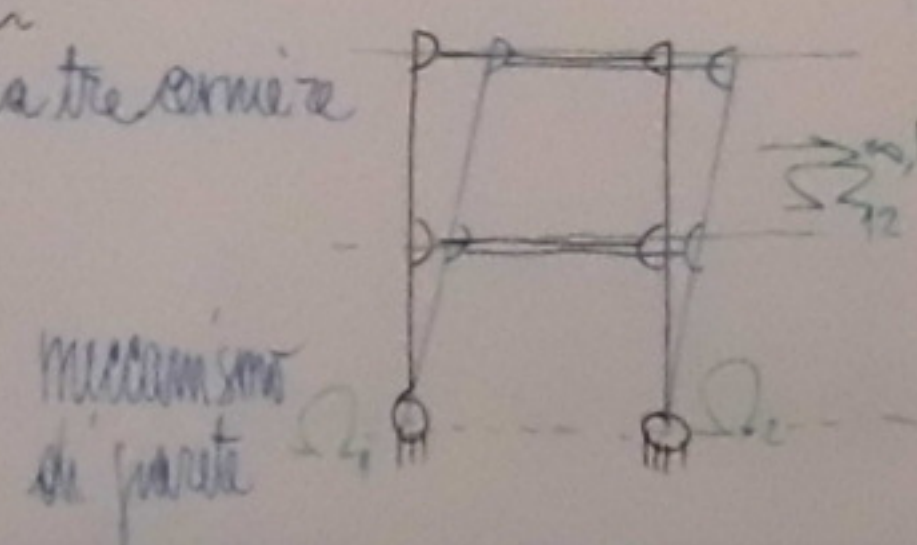
arco a tre cerniere
conducibile ad arco a tre cerniere



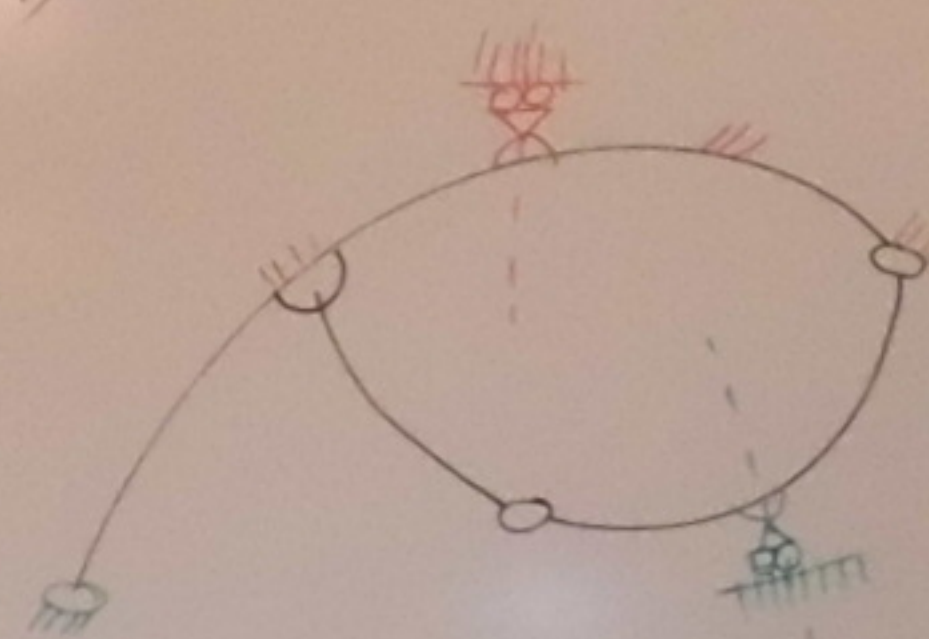
6)



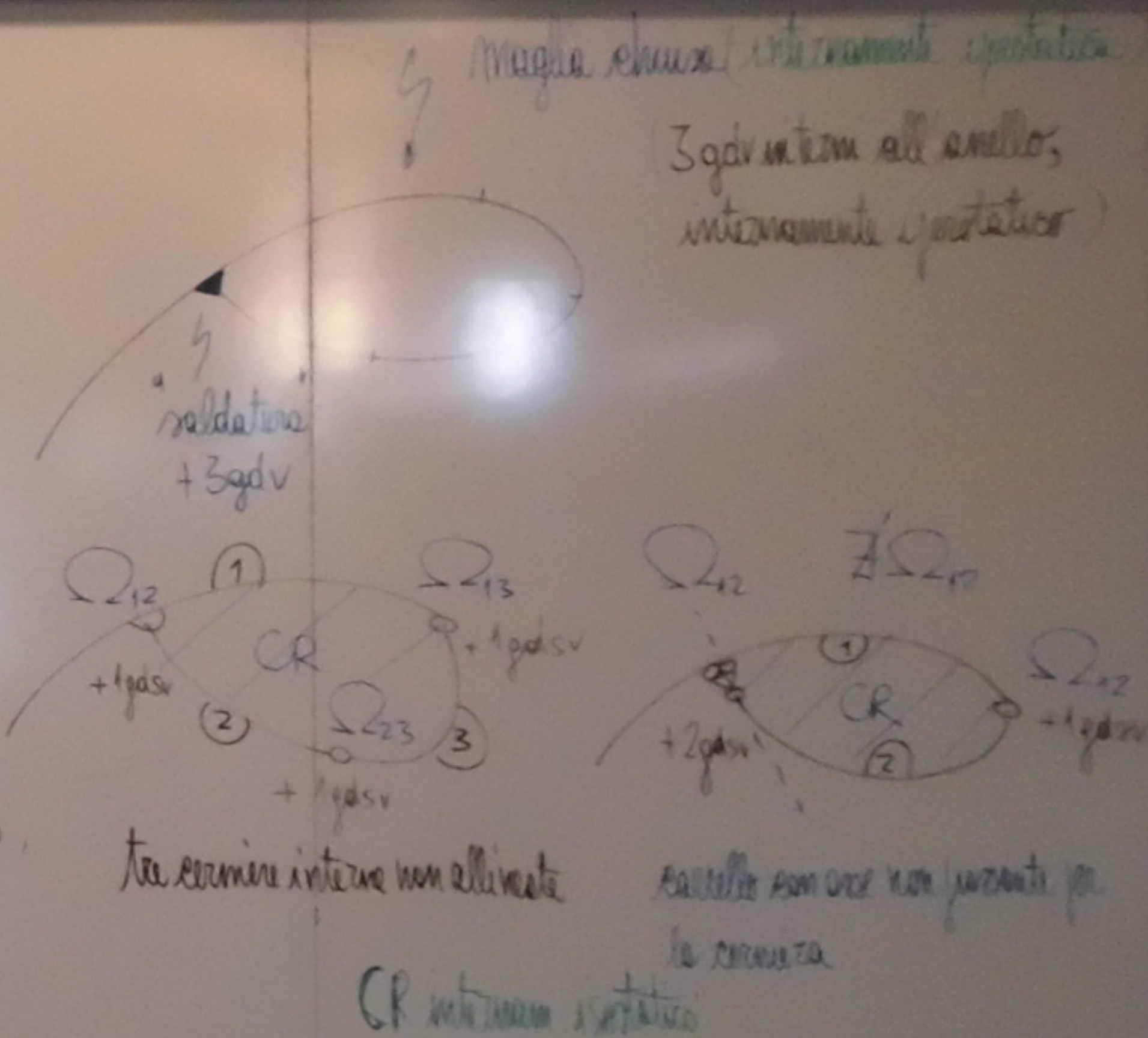
conducibile ad arco a tre cerniere
conducibile ad arco a tre cerniere



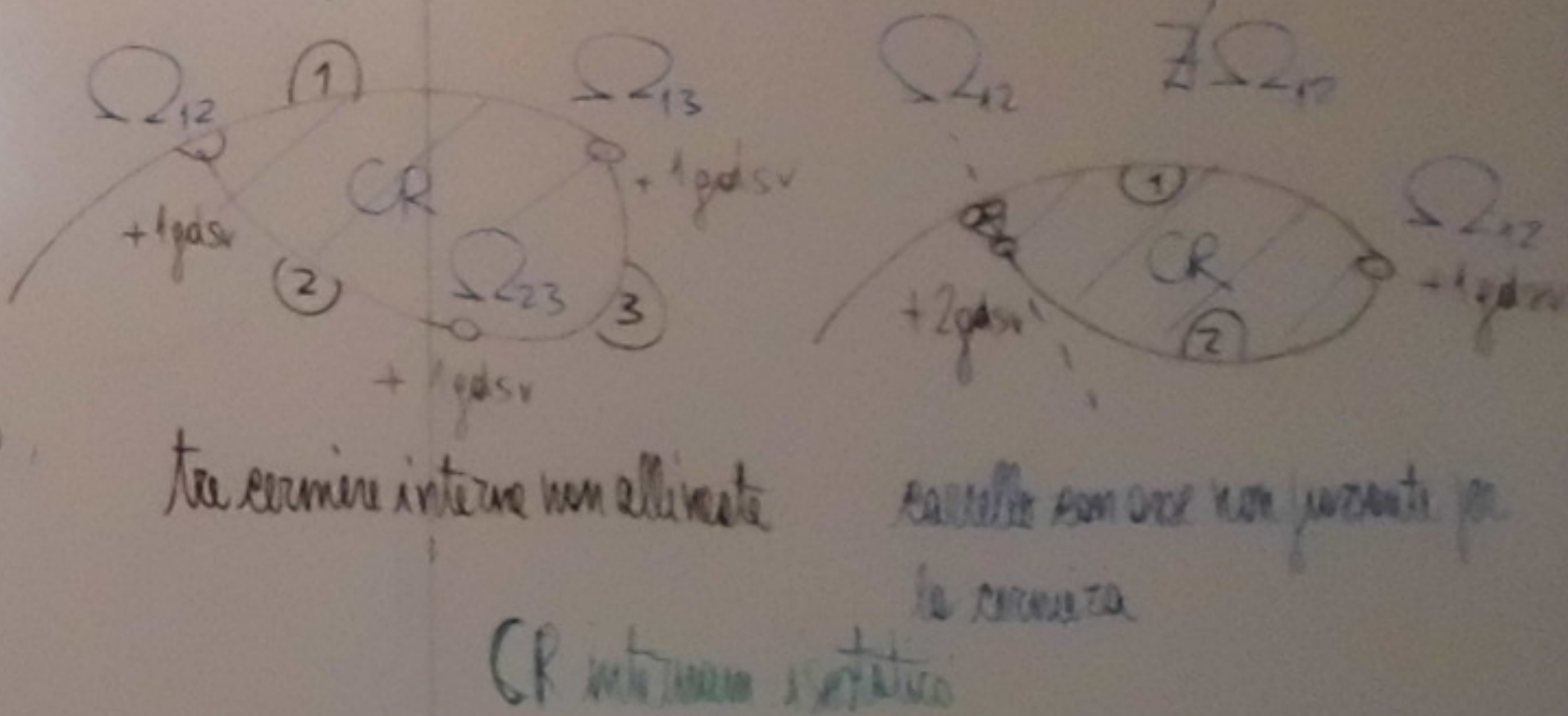
7)



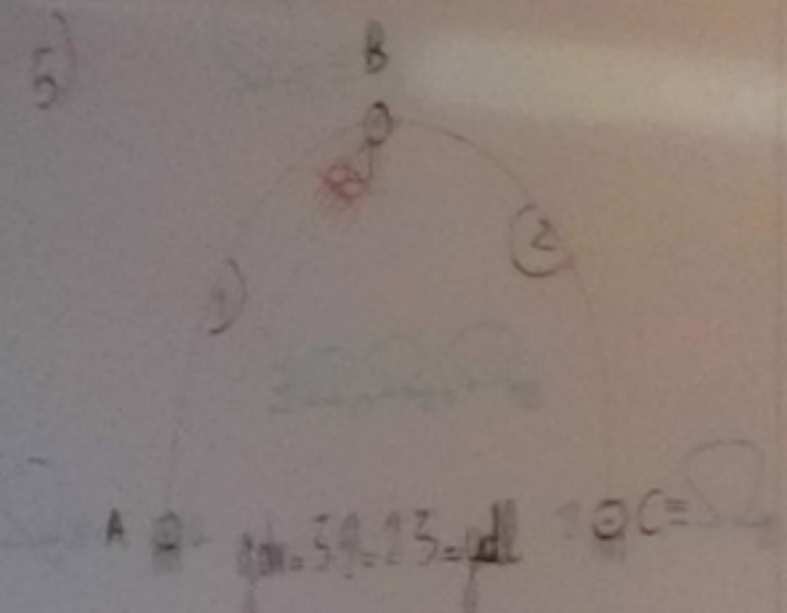
anello chiuso isostatico
posto a terra con una delle modalità
viste, secondo sequenza di montaggio
che può essere non univoca



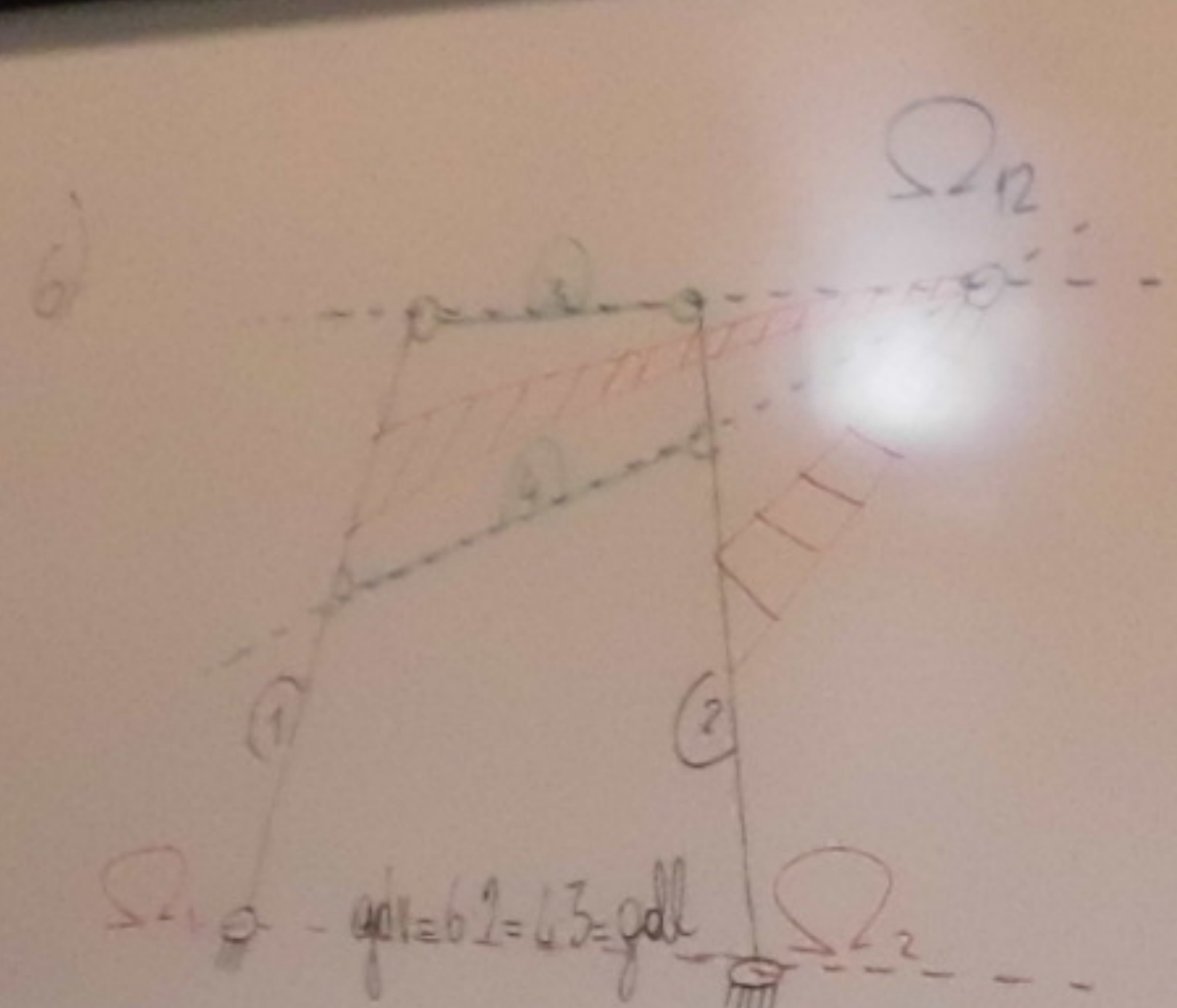
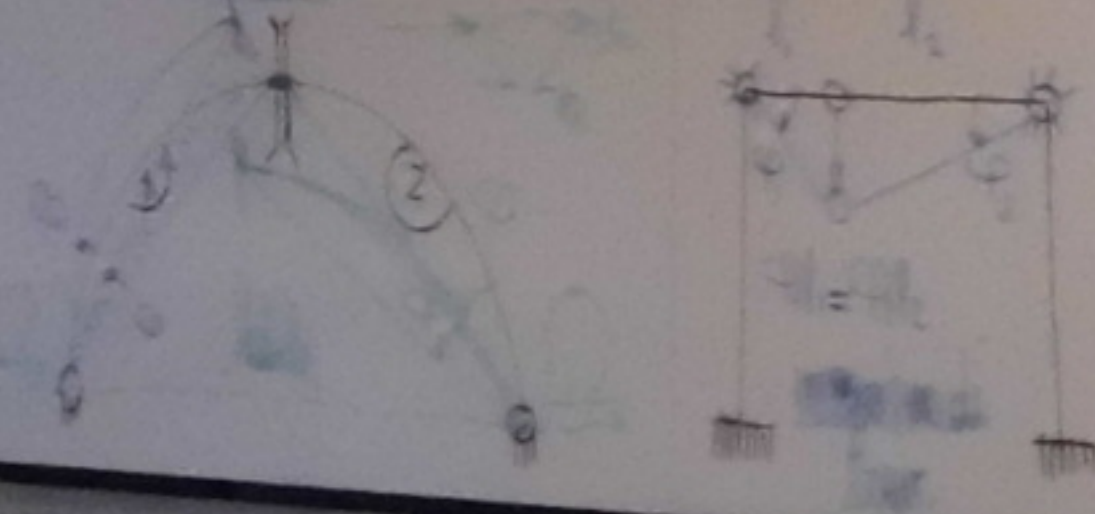
Maglia chiusa internamente isostatica
3 qdv interni all'anello, internamente isostatici



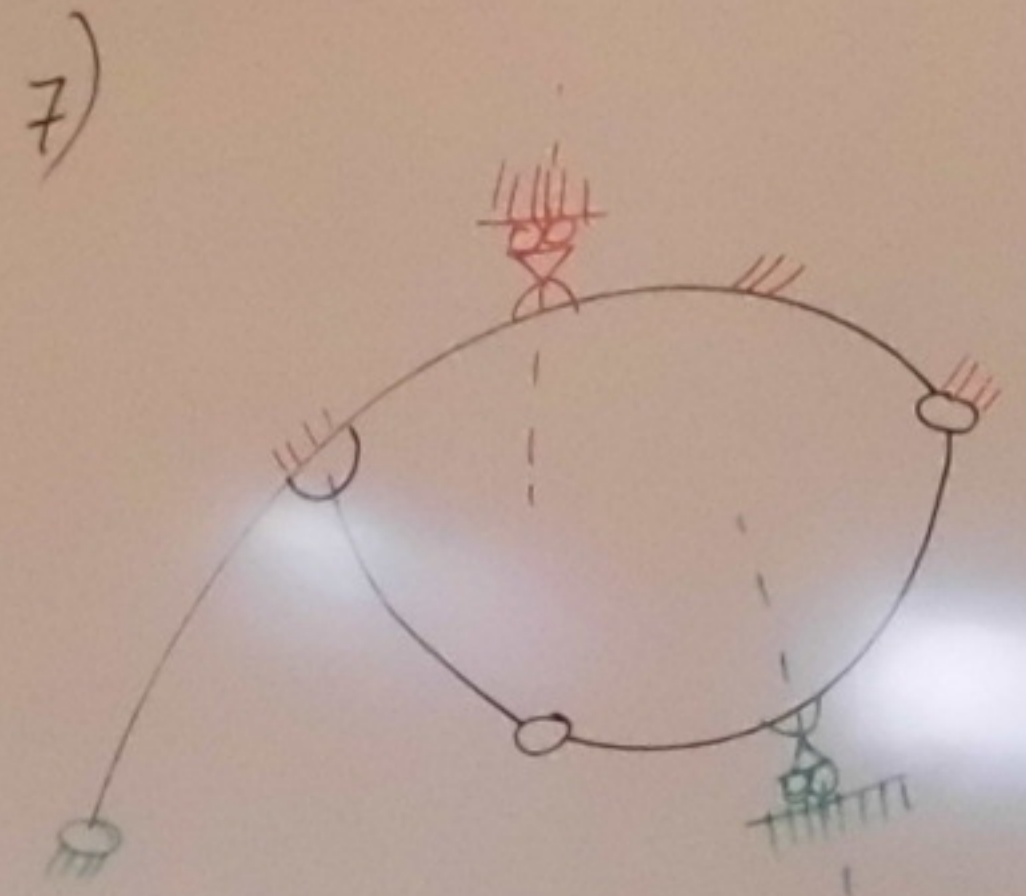
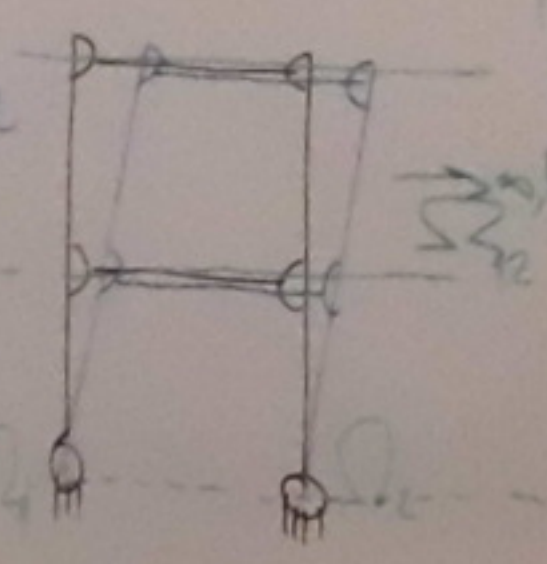
Schemi isostatici fondamentali



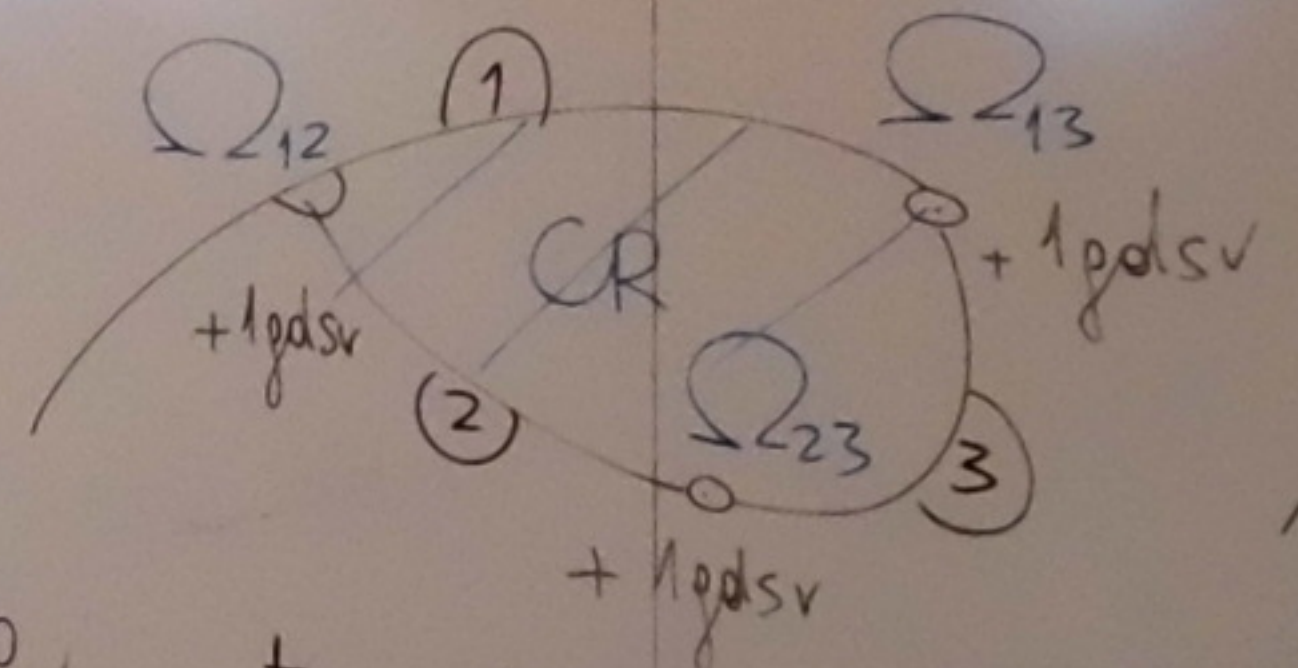
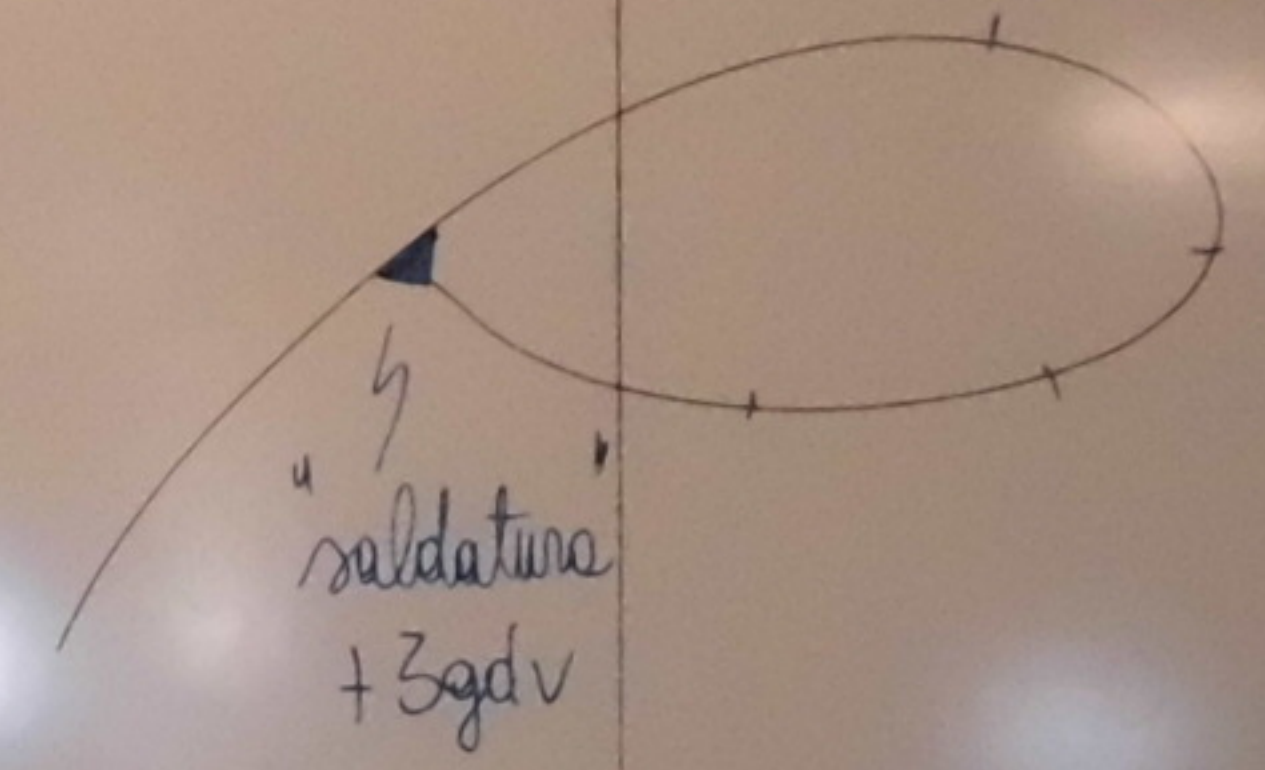
semplice a tre cerniere
non allineate



quadrilatero articolato
con vincoli ad asse a tre cerniere
non allineate



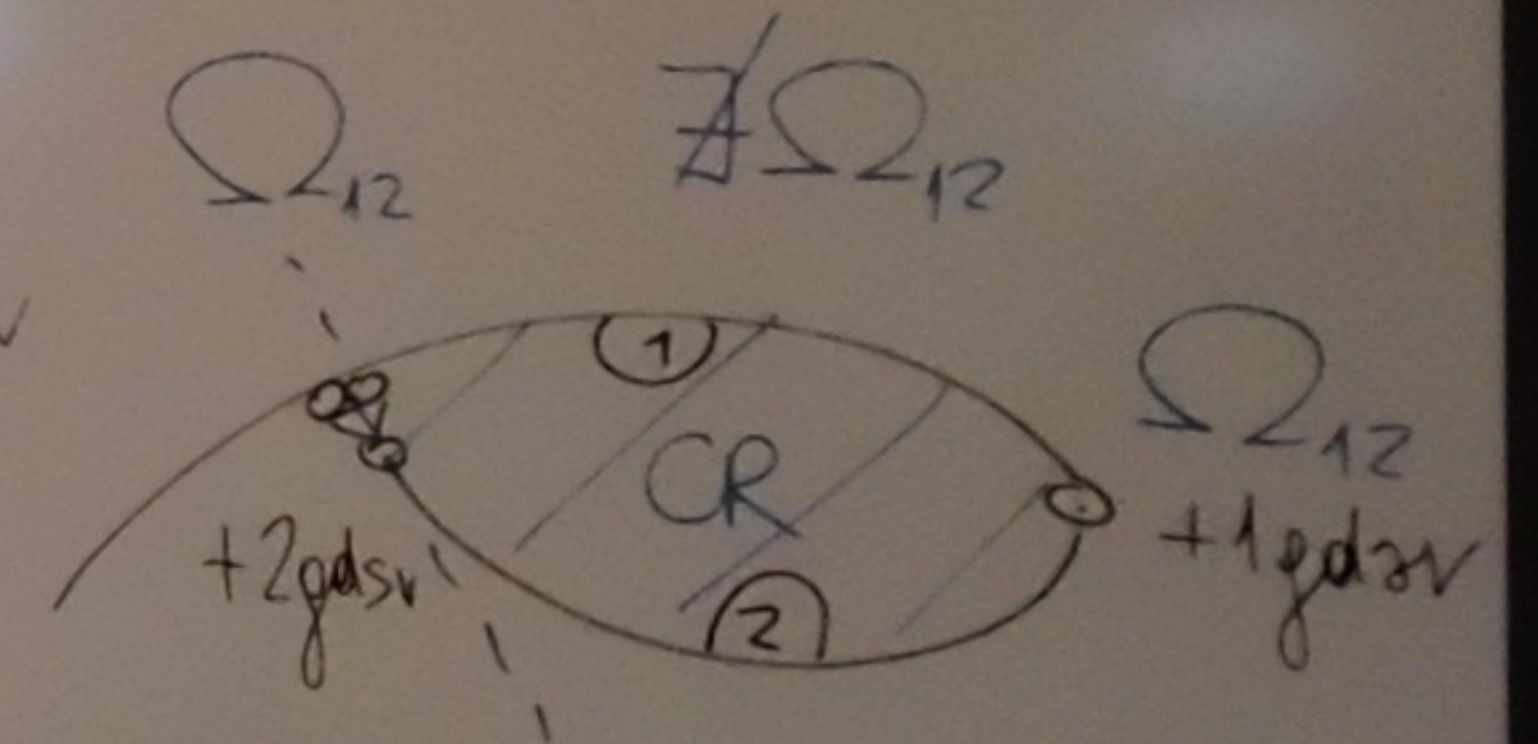
anello chiuso isostatico
(posto a terra con una delle modalità
viste, secondo sequenza di montaggio
che può essere non univoca)



tra cerniere interne non allineate

CR internam. isostatica

maglia chiusa internamente iperstatica
(3 gdv interni all'anello;
internamente iperstatico)



carrello con asse non passante per
la cerniera